

FIG. 1A
PRIOR ART

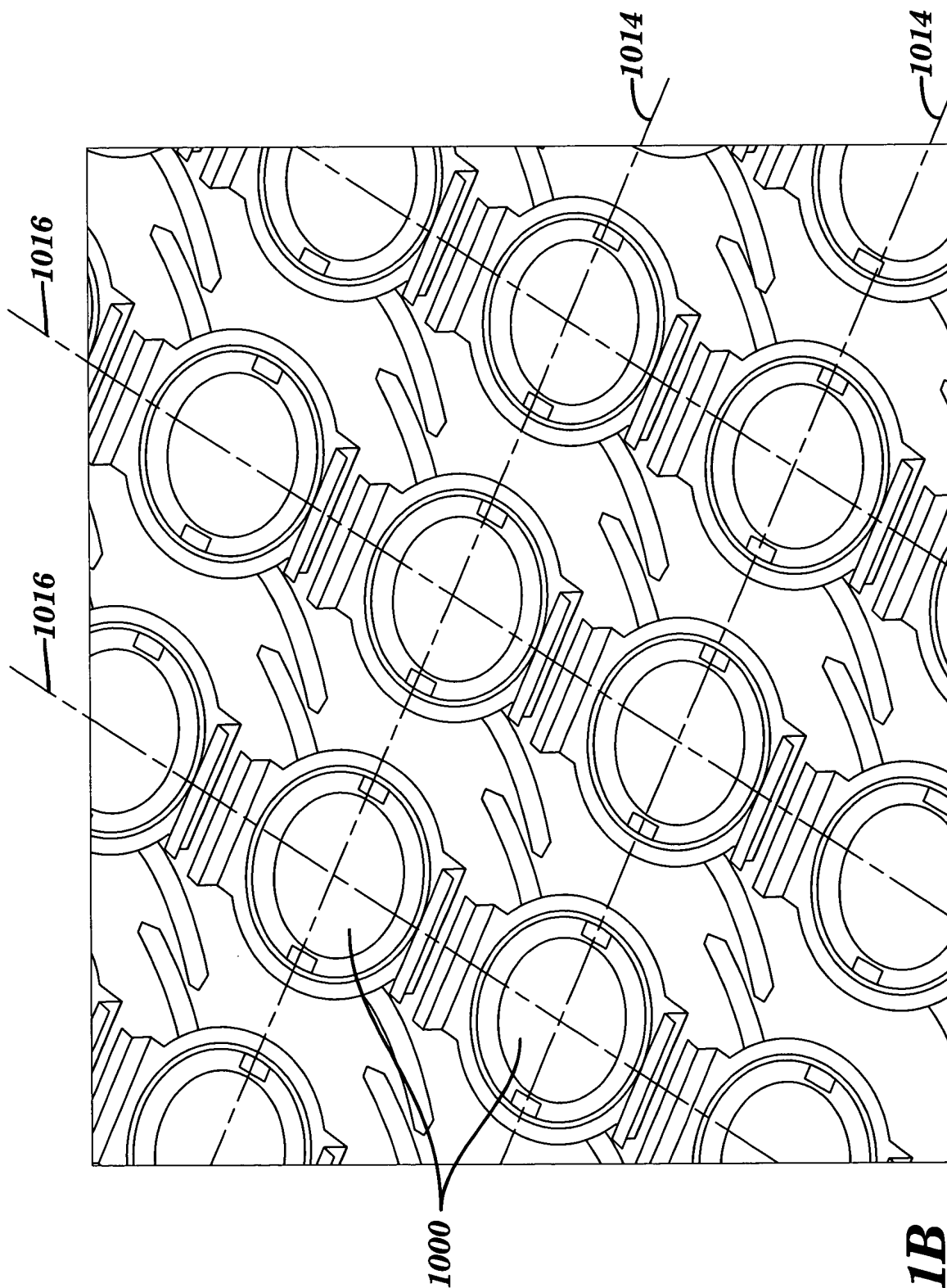


FIG. 1B
PRIOR ART

204290" 0E65200T

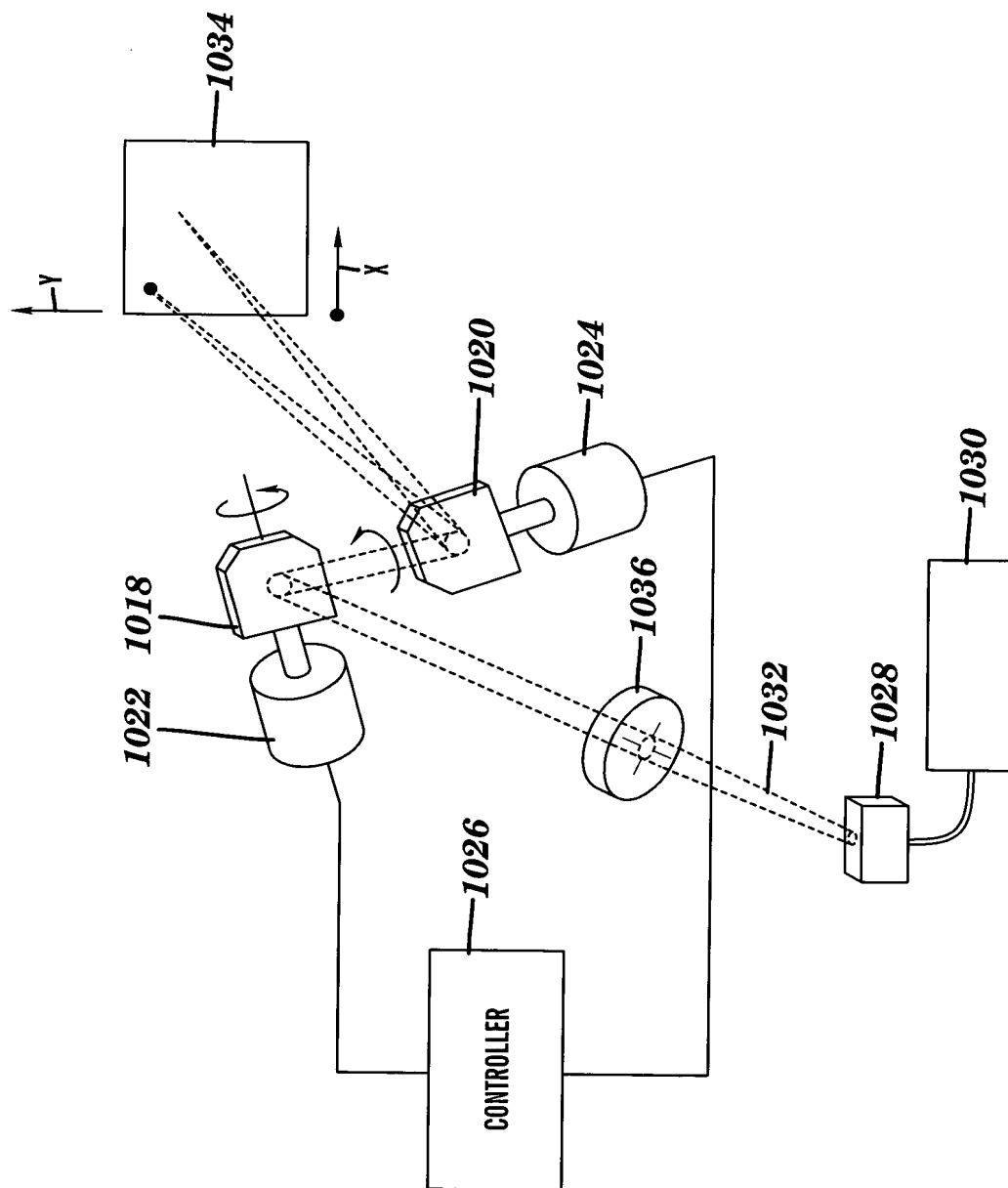


FIG. 2
PRIOR ART

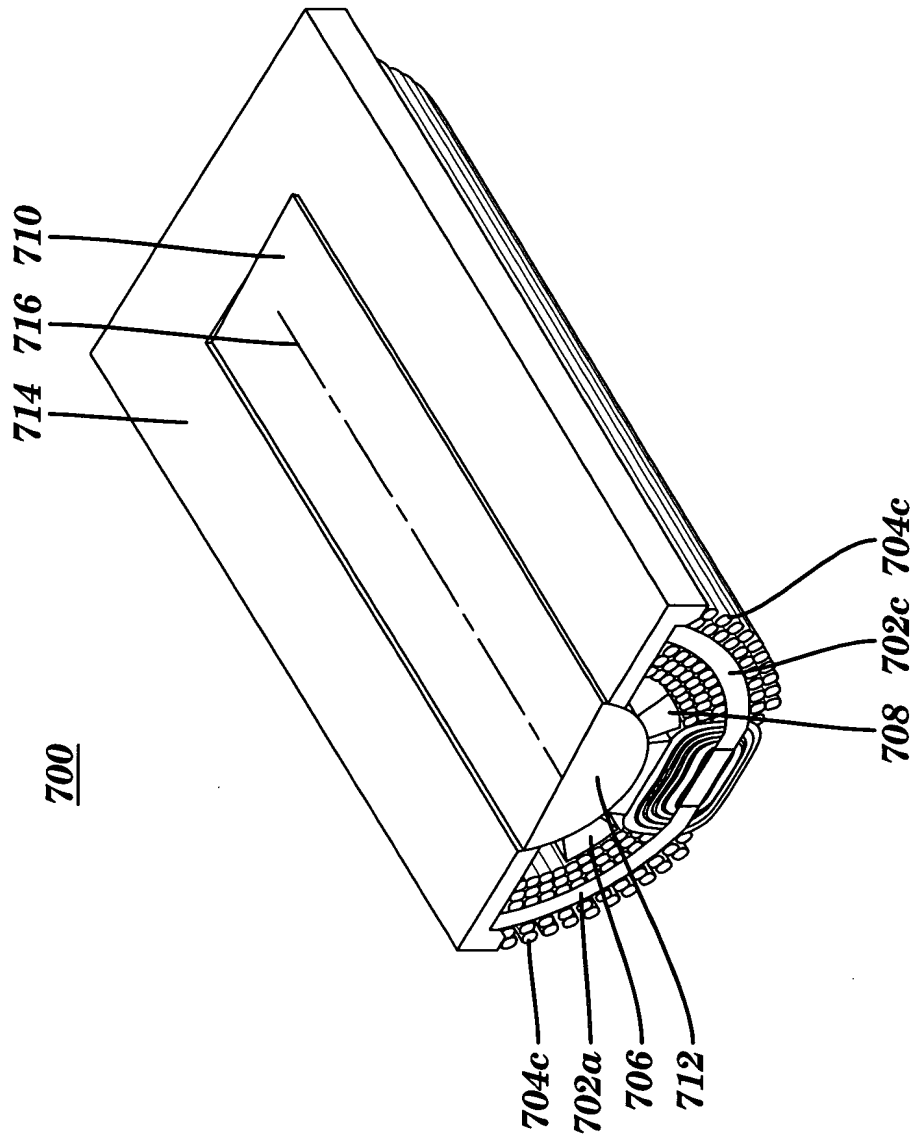


FIG. 3B

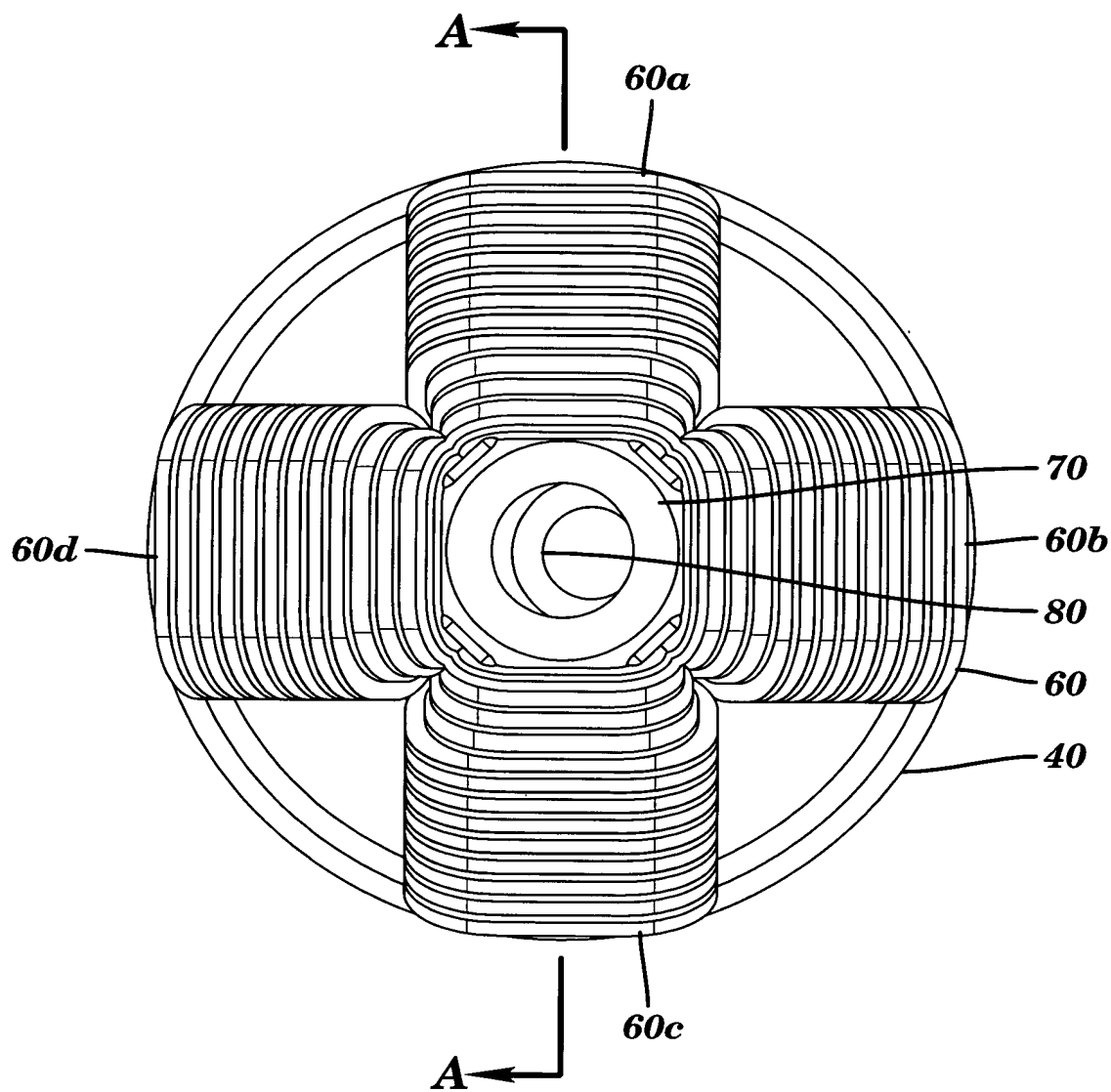


FIG. 4

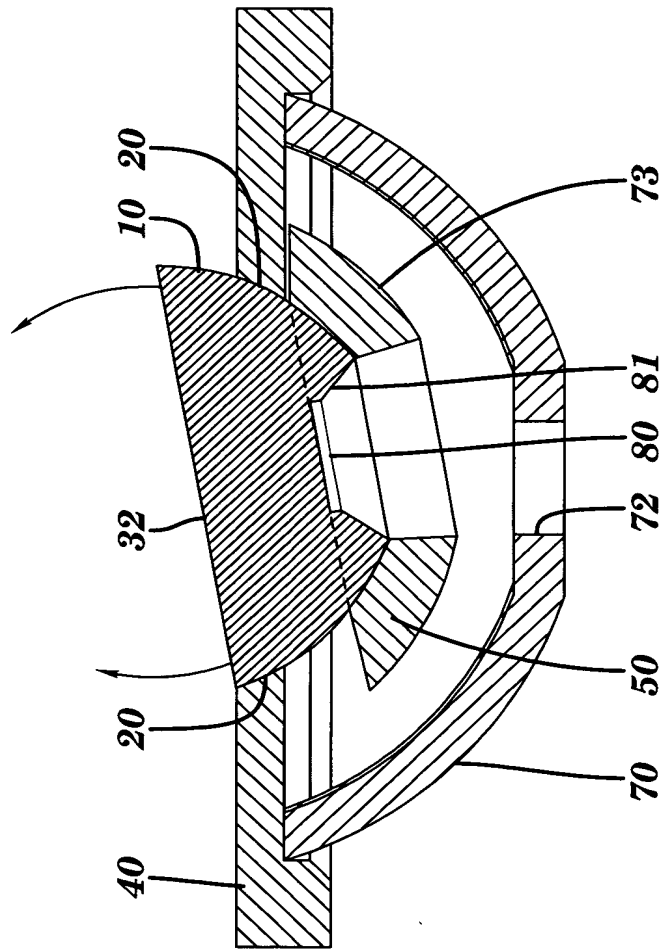


FIG. 5

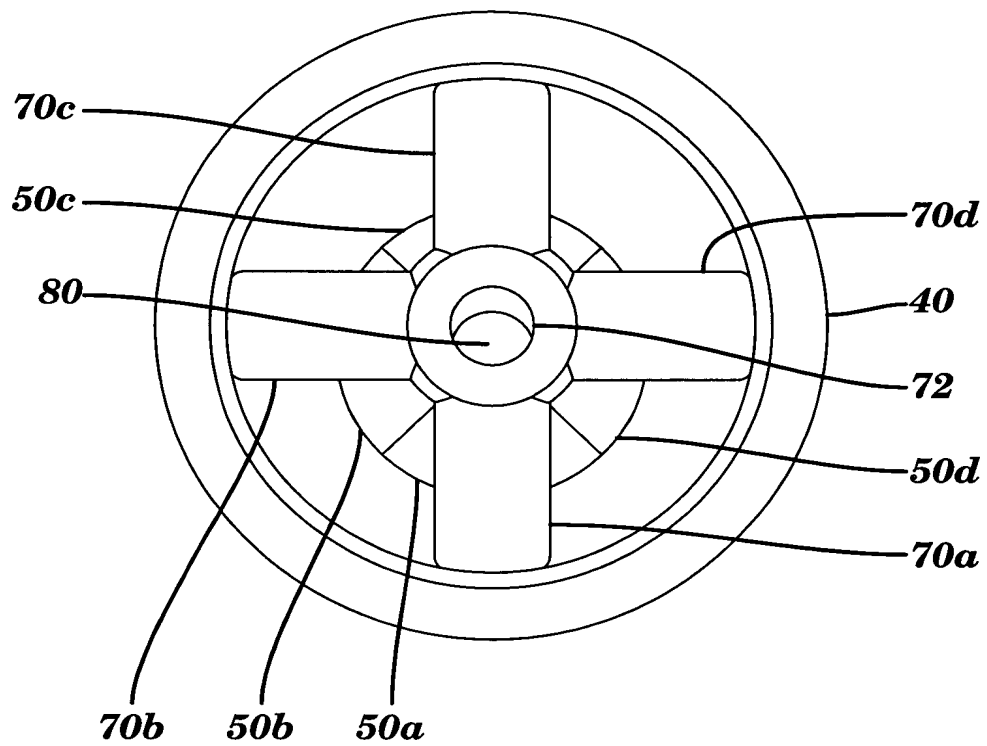


FIG. 6

20140901 08552001

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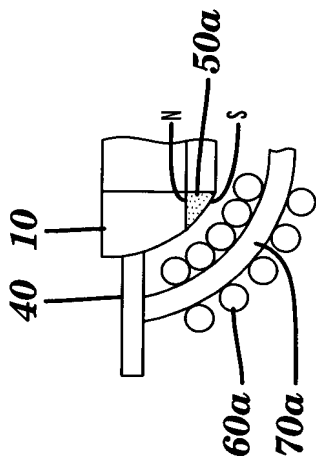


FIG. 7A

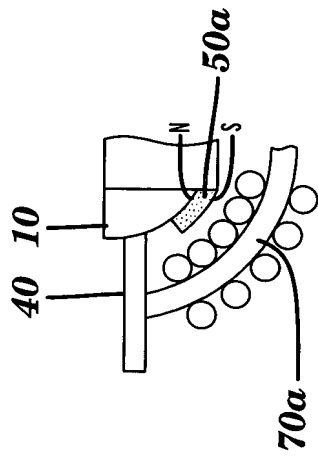


FIG. 7B

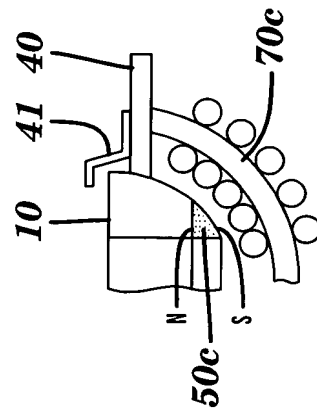


FIG. 7C

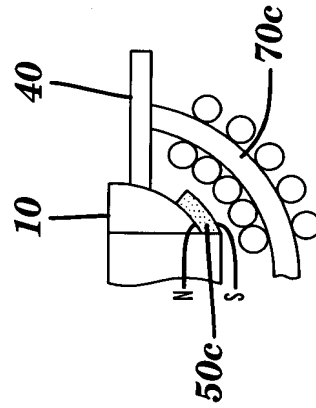


FIG. 7D

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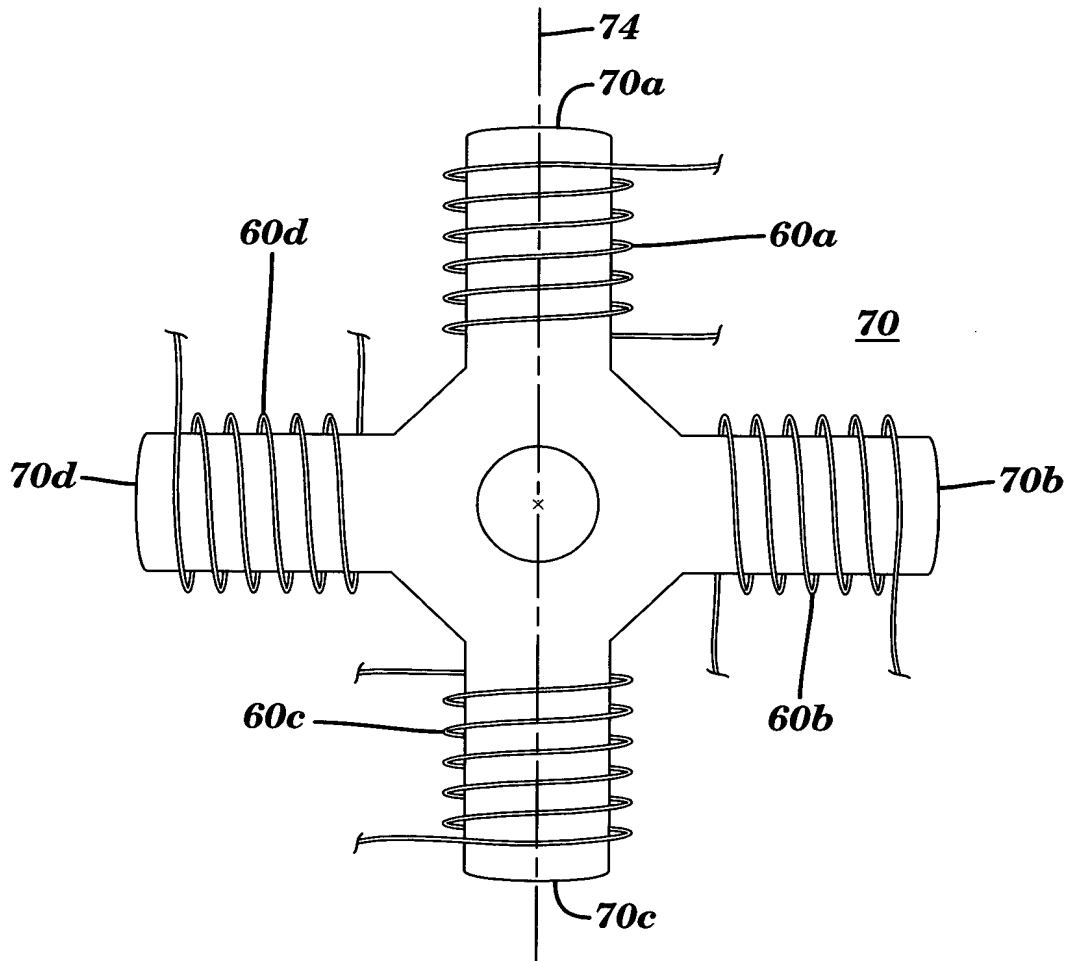


FIG. 8

204290" 0655400T

204290" 065400F

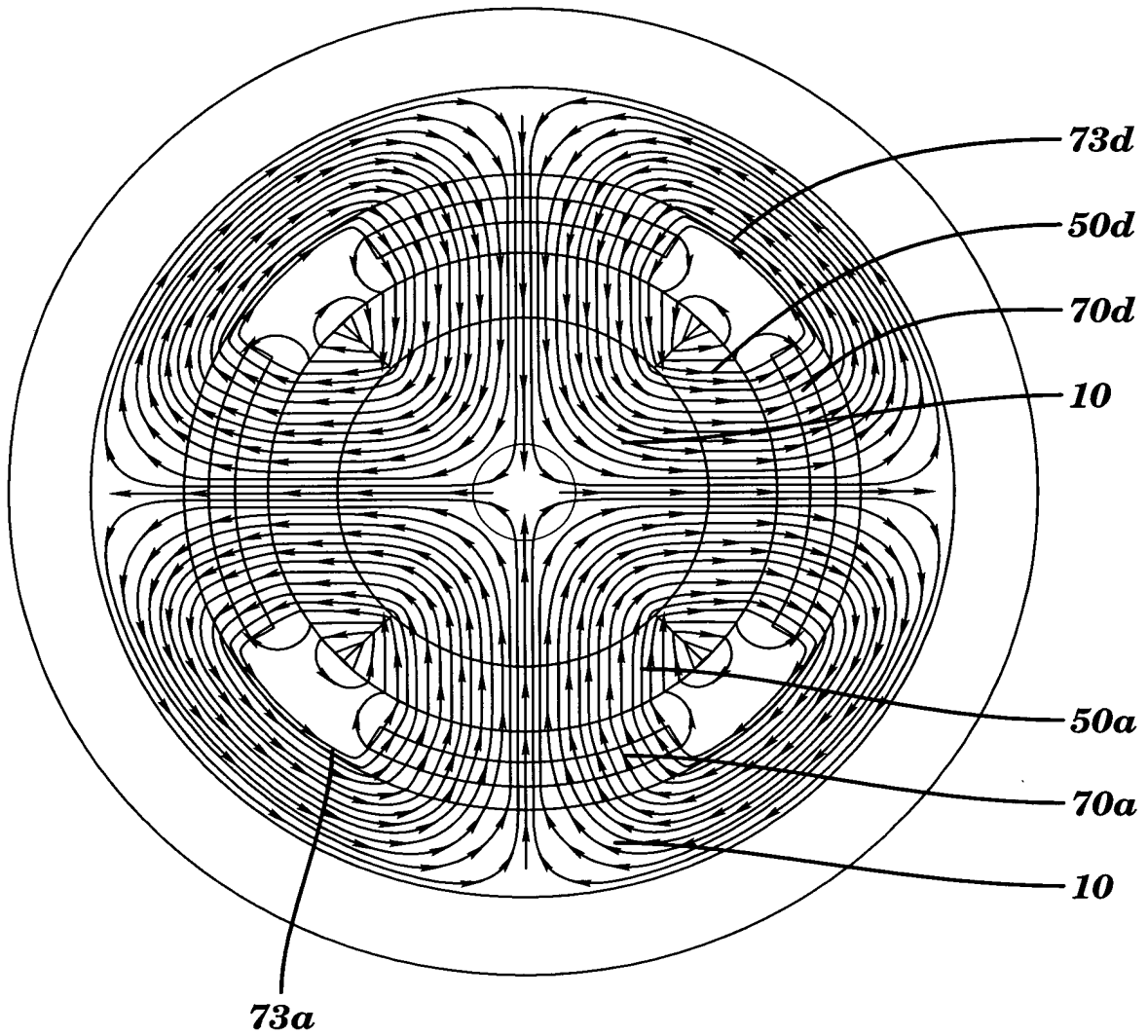


FIG. 9

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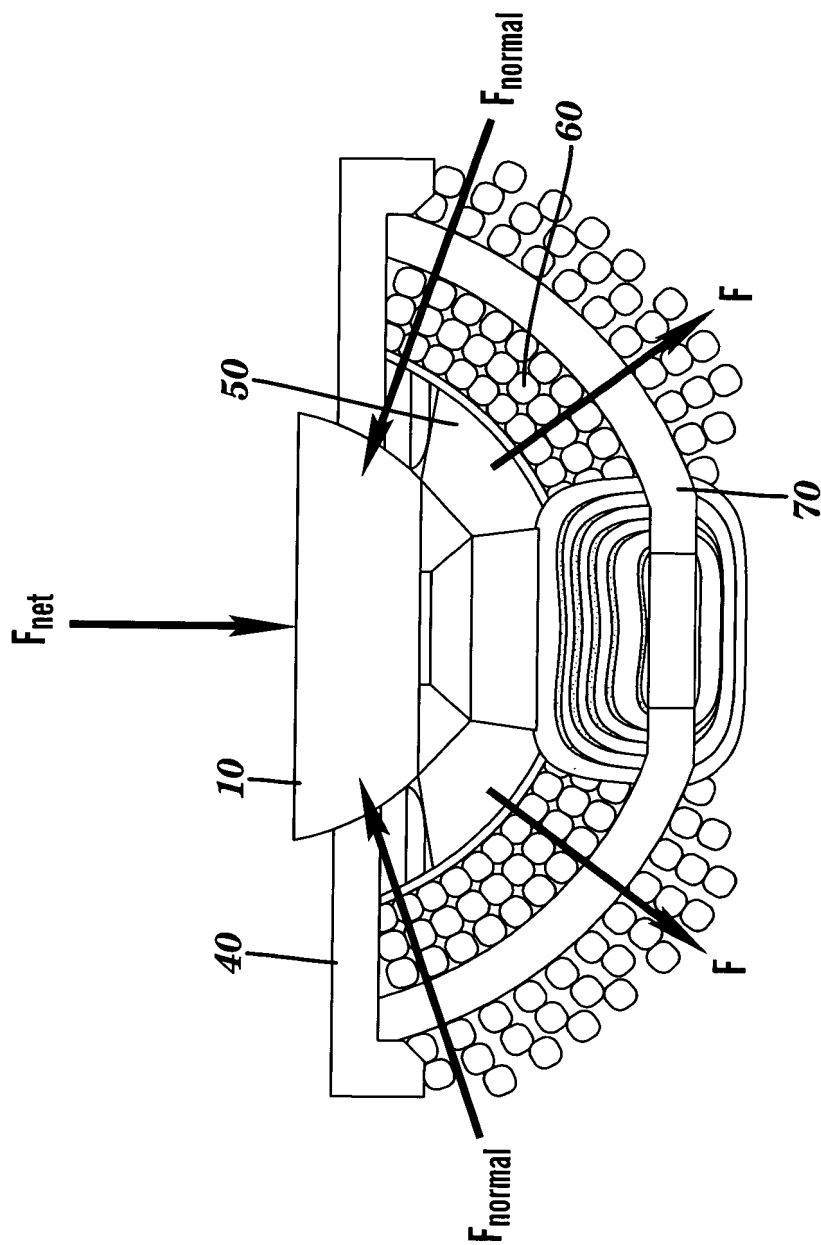


FIG. 10

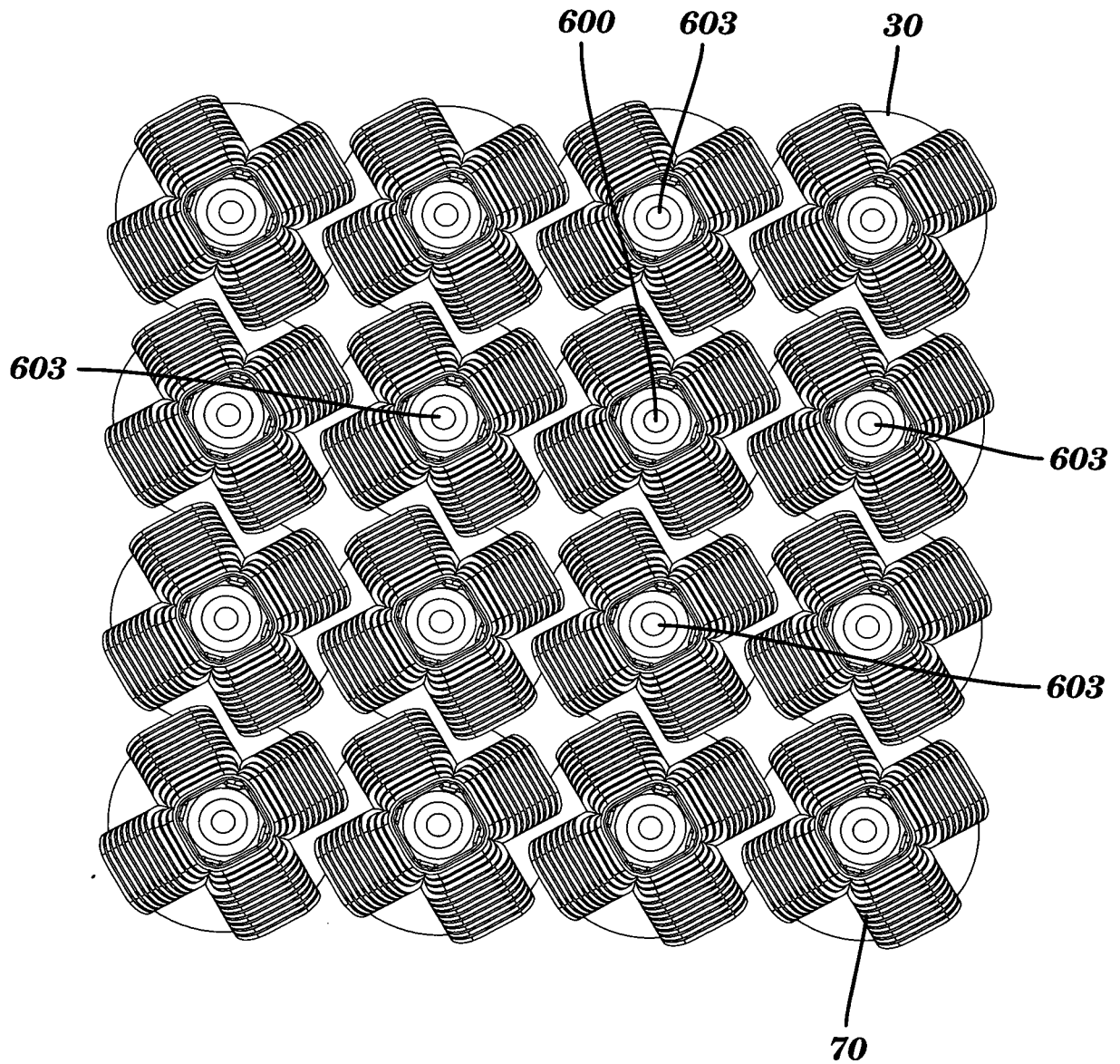


FIG. 11

204290 0665001

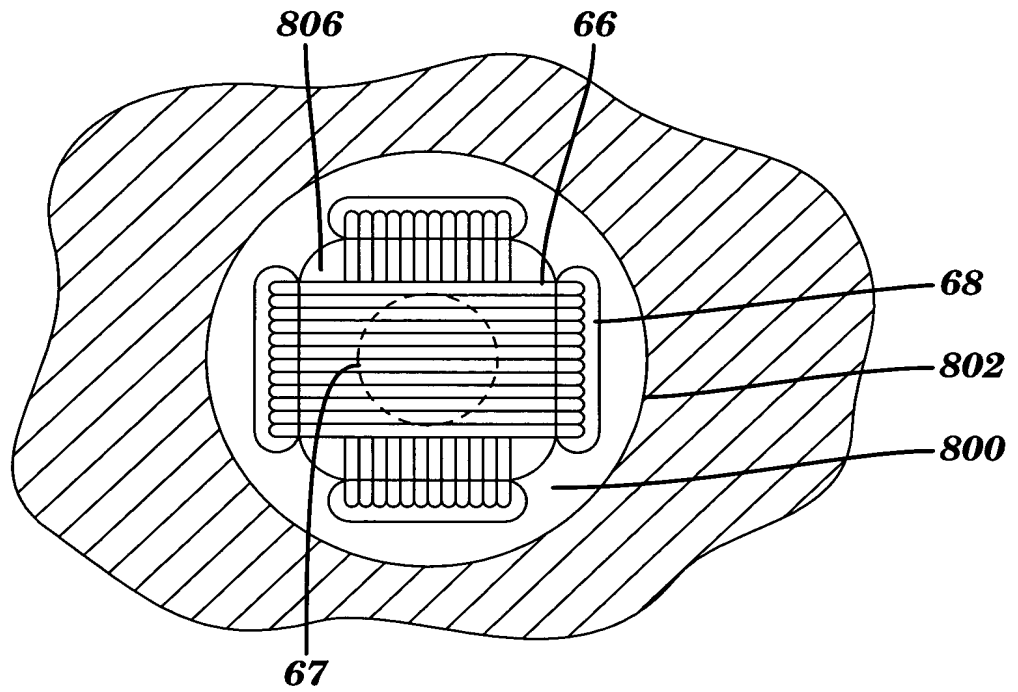


FIG. 13

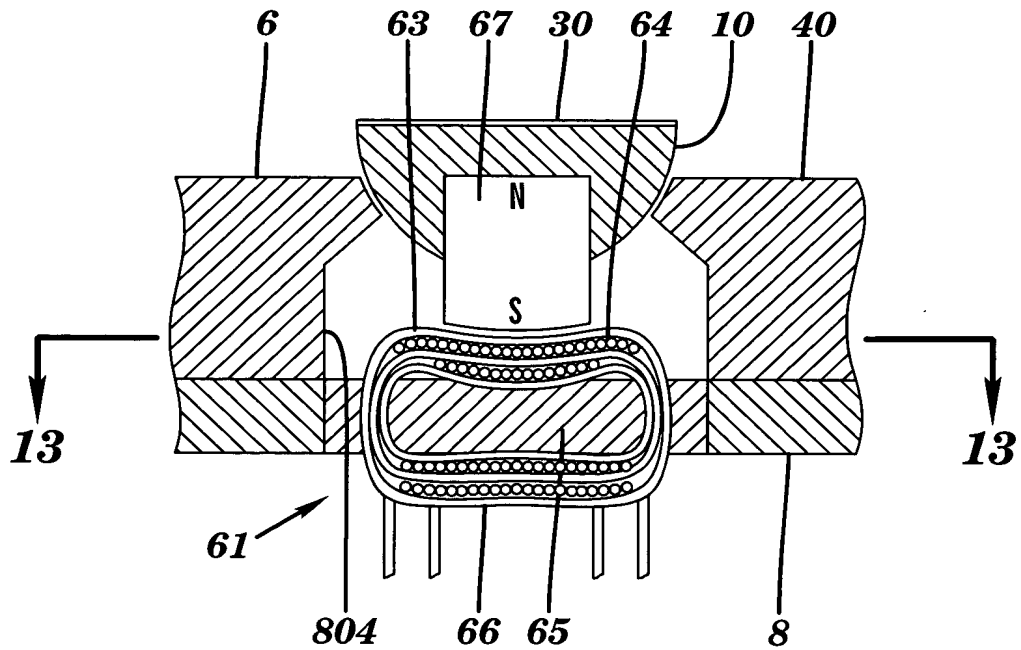


FIG. 12

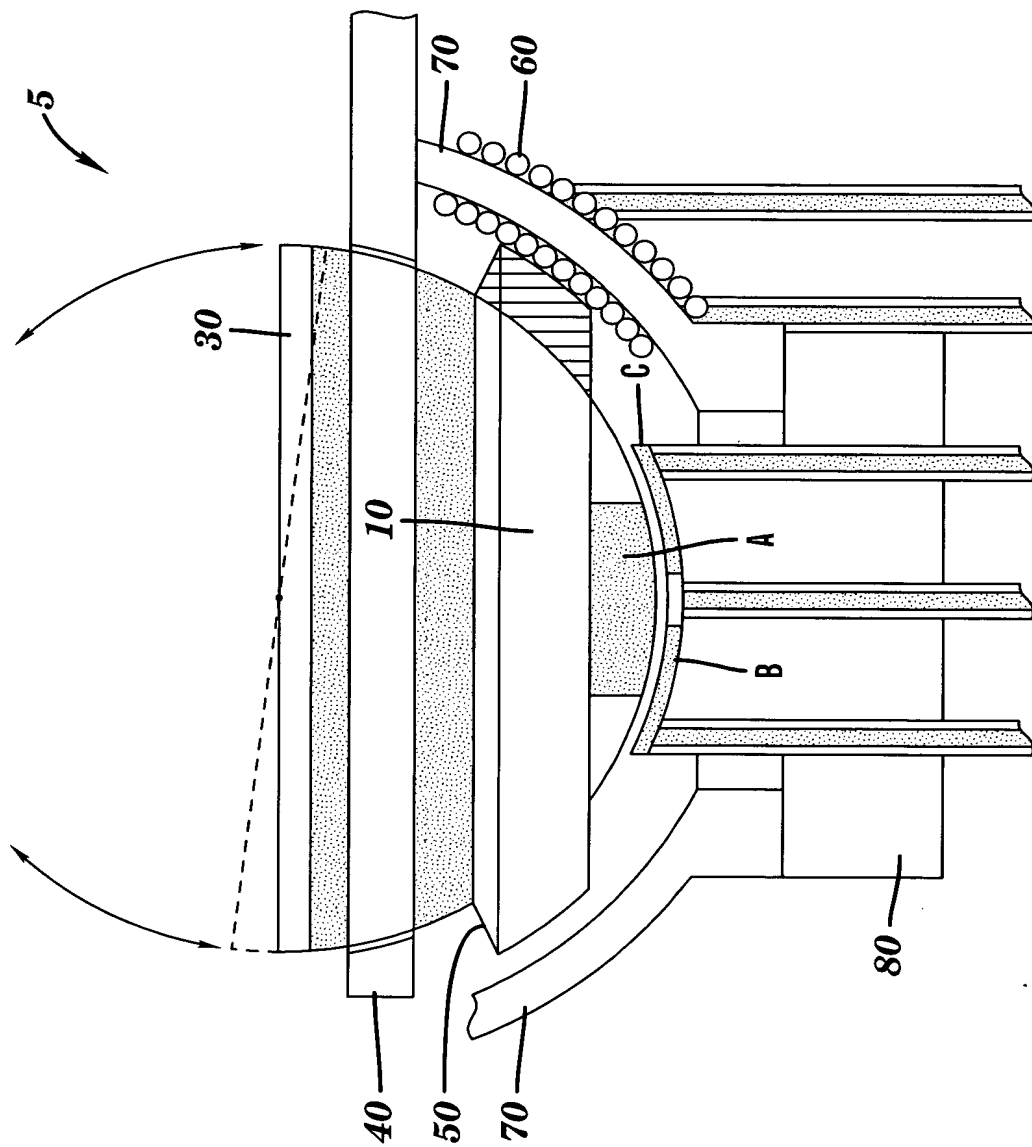


FIG. 14

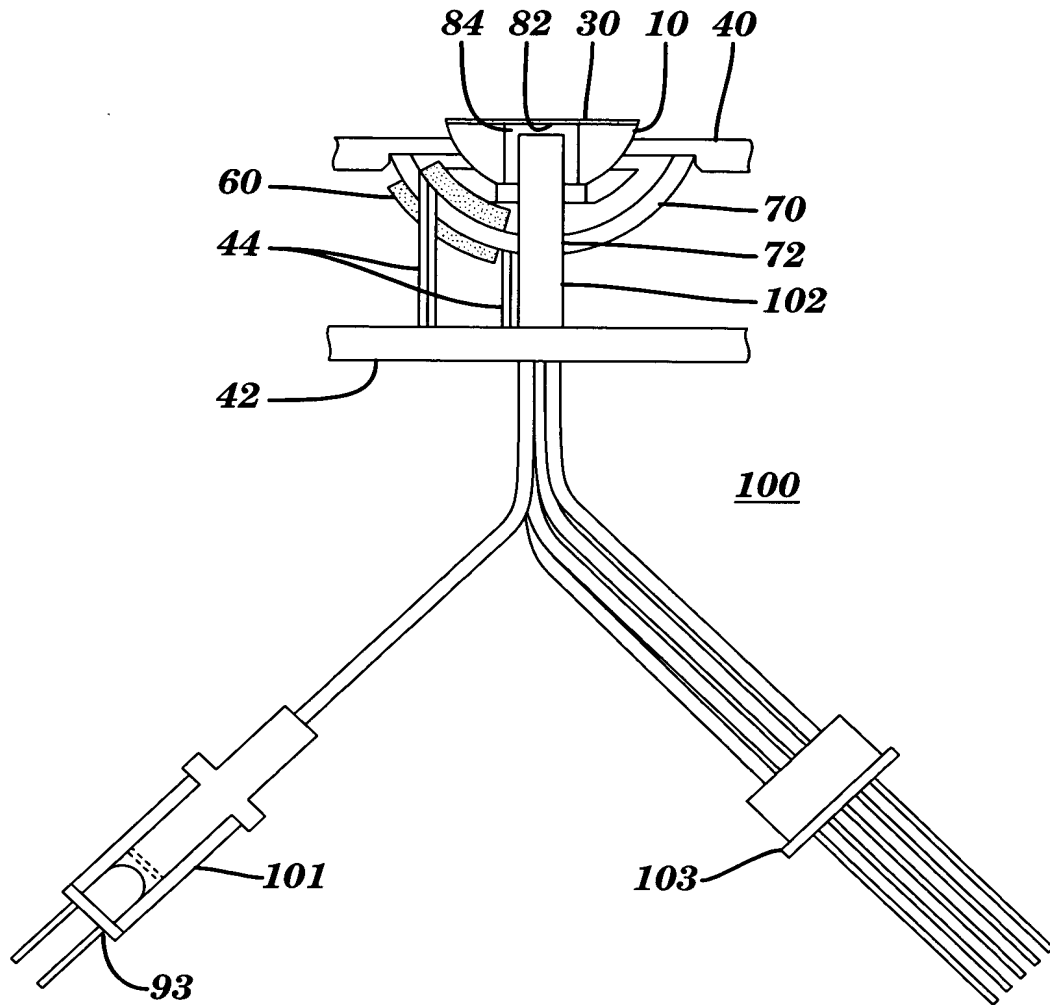


FIG. 15

204290" 0665400T



FIG. 16C

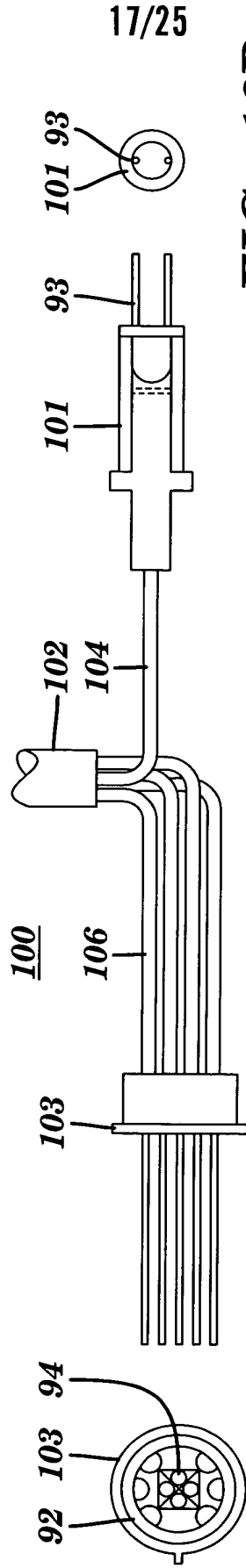


FIG. 16B

FIG. 16A

FIG. 16D

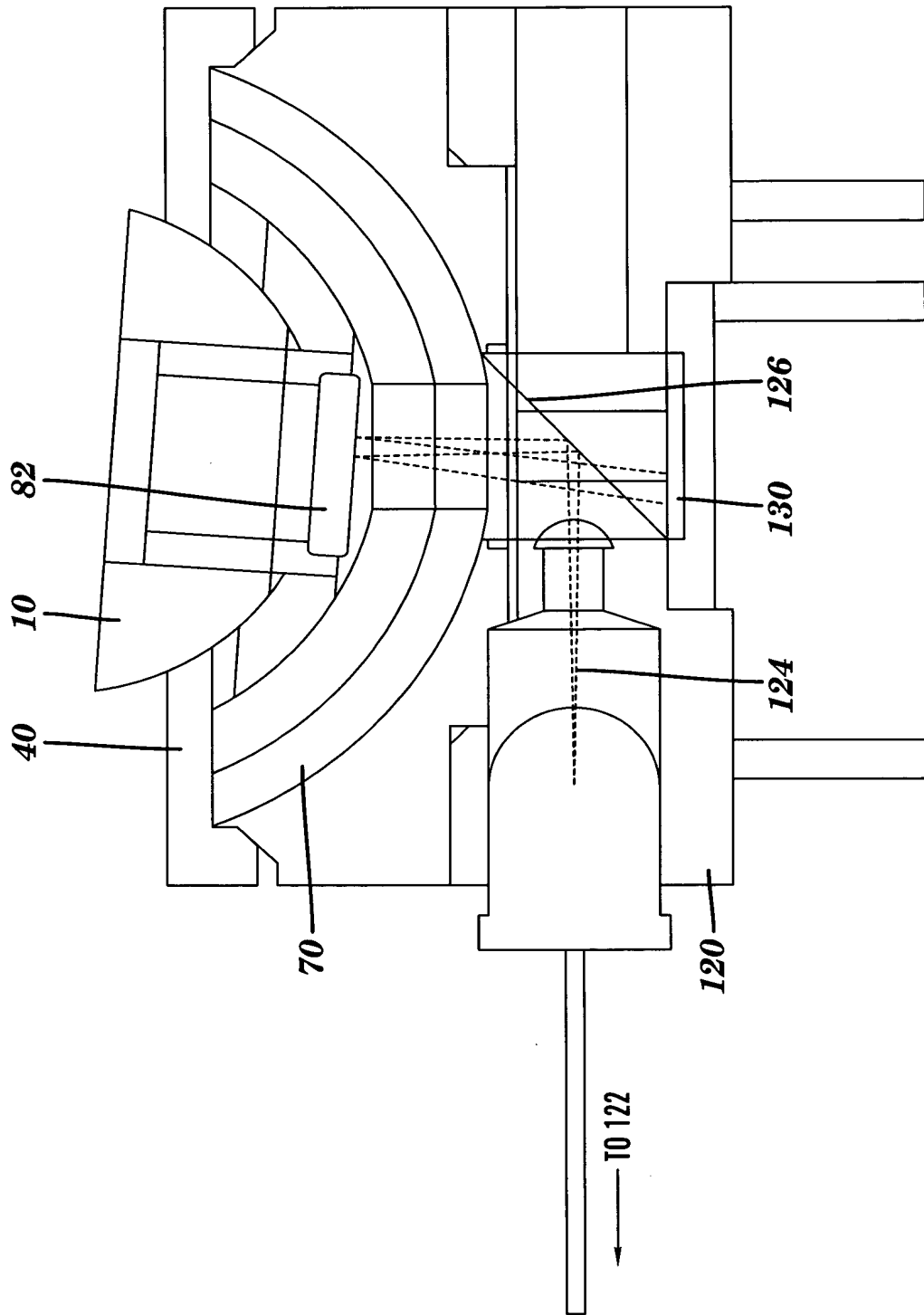


FIG. 17

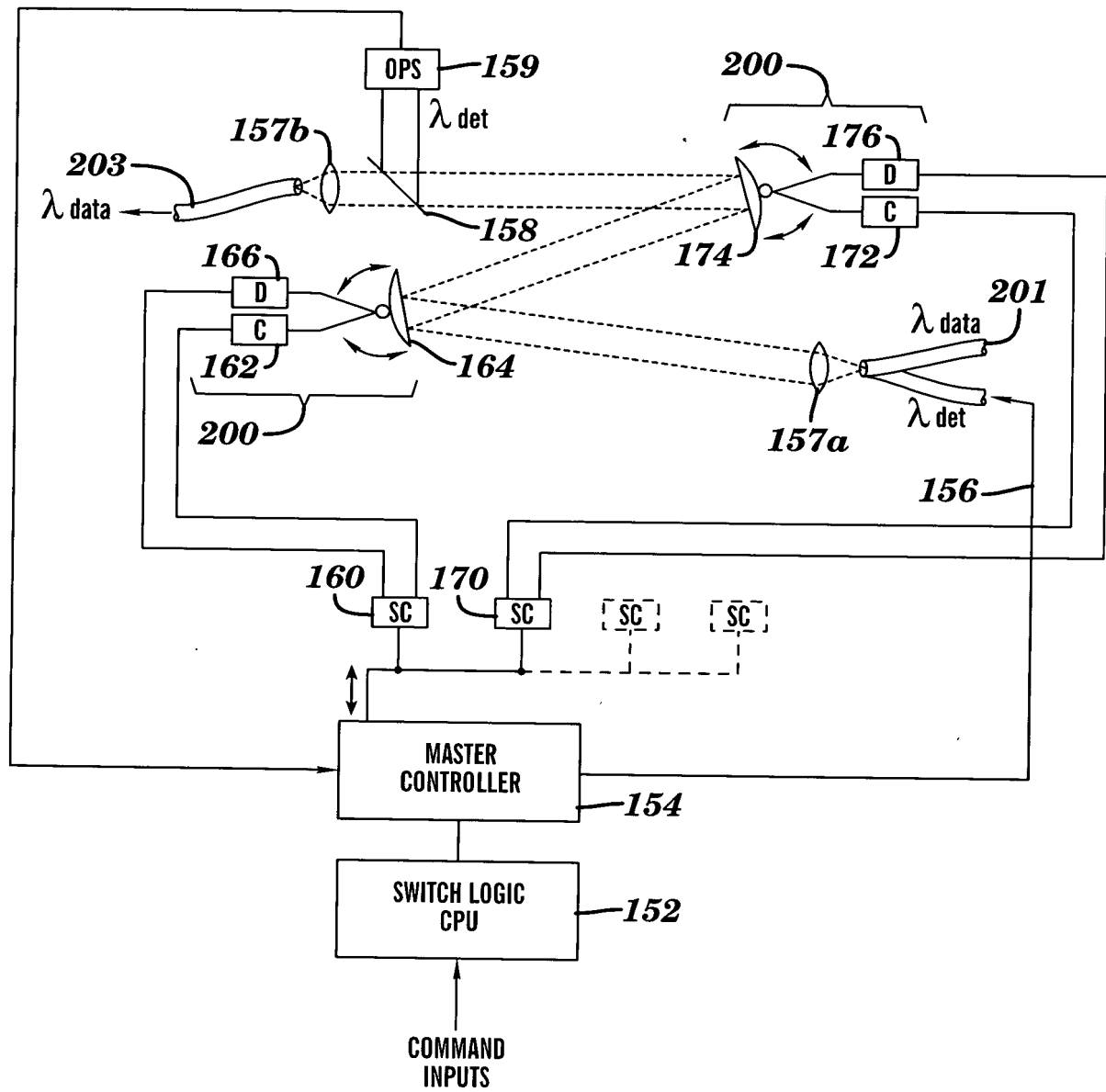
202**FIG. 18**



FIG. 19

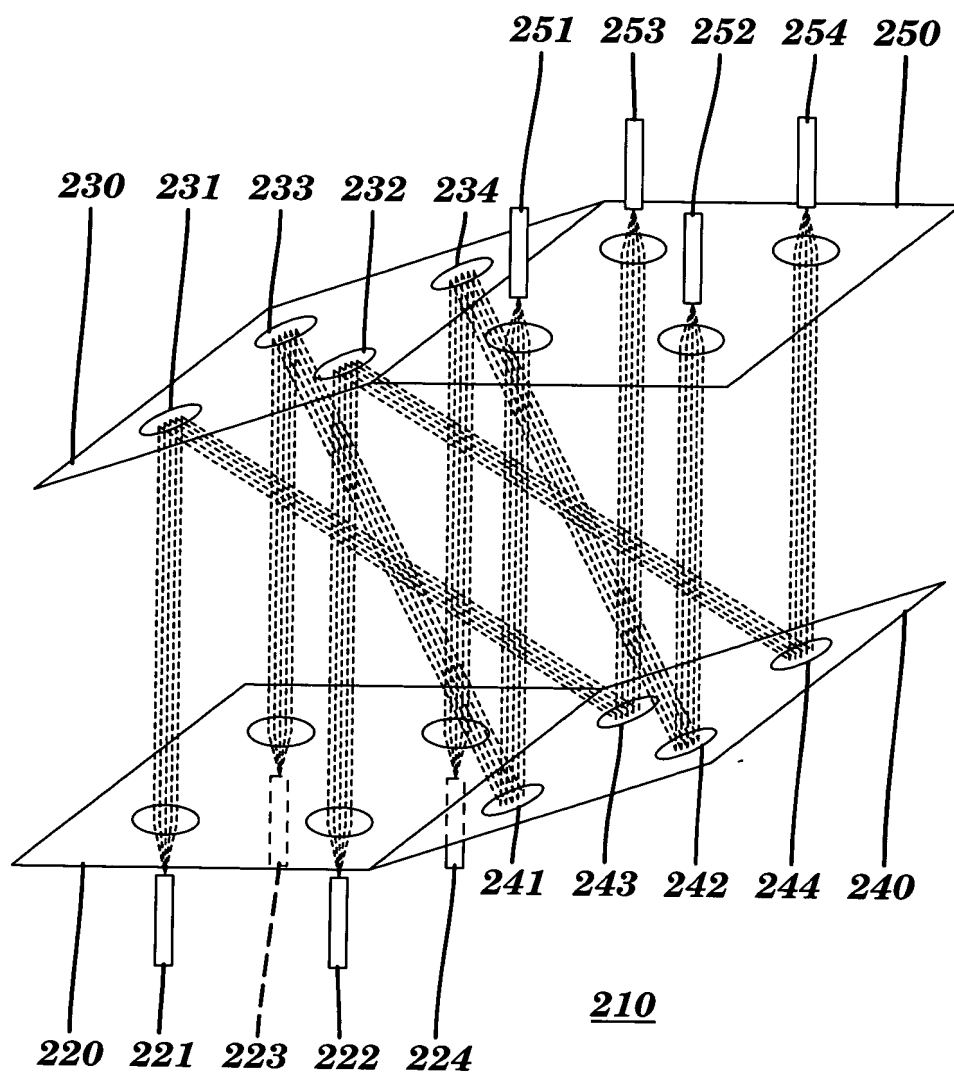


FIG. 20

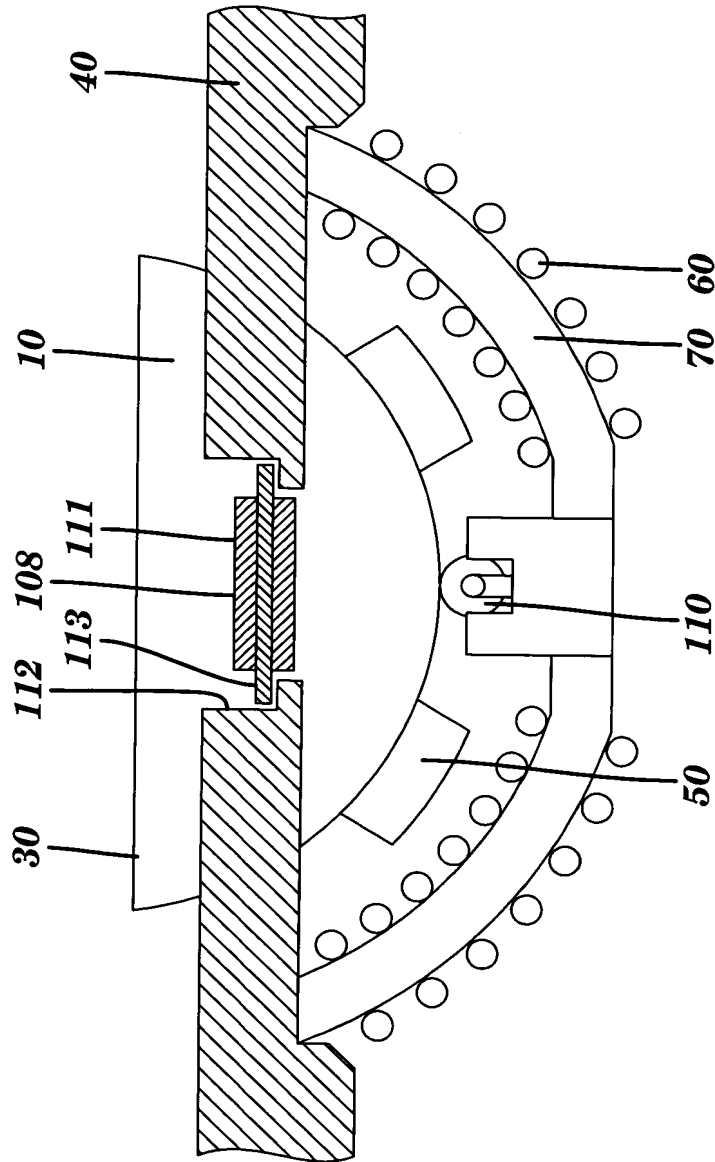


FIG. 21

The diagram illustrates a closed-loop control system for a motor. The system components and their interconnections are as follows:

- Input Signal 402:** The external input to the system.
- Summing Junction 406:** Combines the input signal 402 with a feedback signal from the feedback path 404.
- Controller Block 410:** A dashed box containing three parallel control paths: an integrator ($1/s$), a proportional controller (P), and a derivative controller ($D \frac{d}{dt}$).
- Summing Junction 408:** Combines the outputs of the three control paths within the controller block 410.
- Motor 412:** Receives the control signal from the summing junction 408. It is represented by a resistor and an inductor in series.
- Motor Outputs:** The motor produces three outputs: position $60a$, velocity $60b$, and position $60c$. These are represented by a series of three inductors.
- Feedback Sensor 414:** A dashed box containing two parallel paths (one with an inductor, one with a capacitor) that sense the position output $60a$ and provide a feedback signal P to the summing junction 406.

FIG. 22

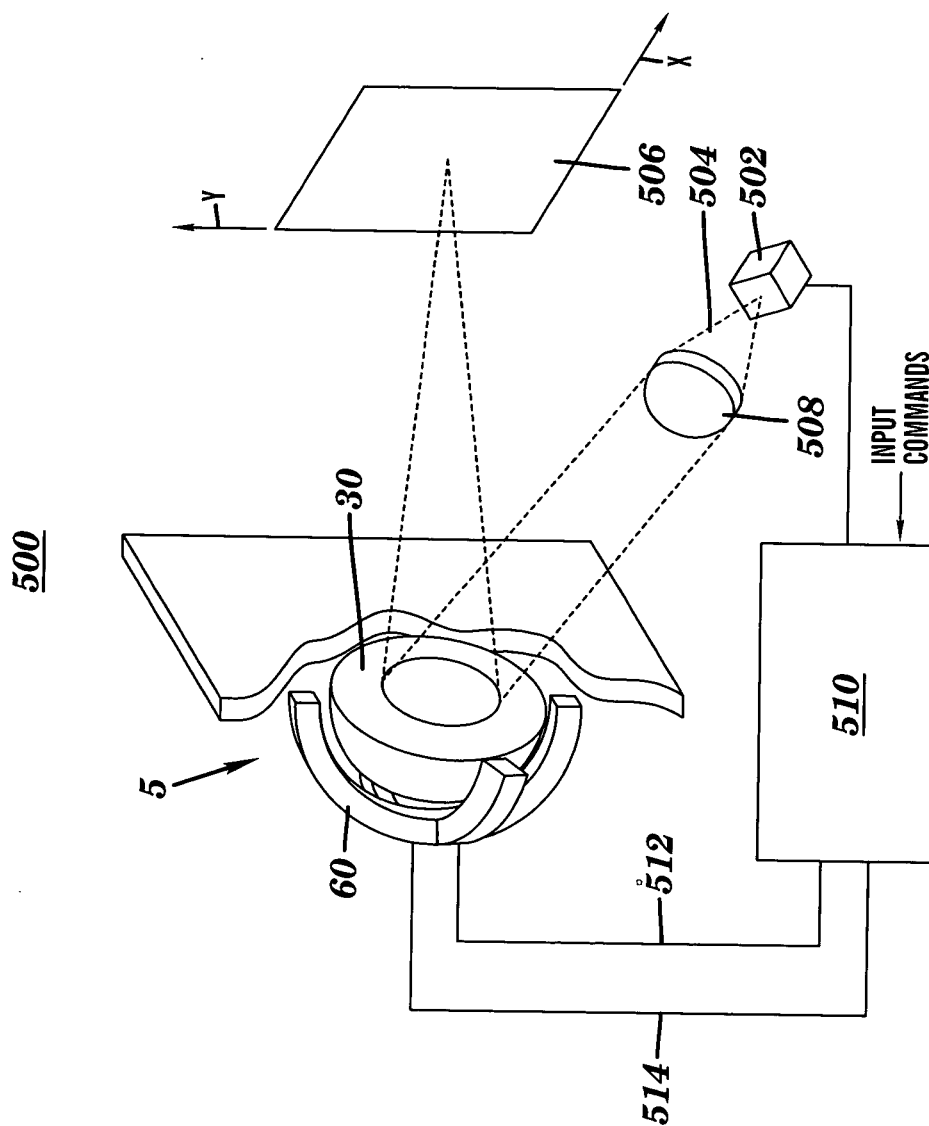


FIG. 23

